

Upstate Region Cancer Profile

June 2019

What Is Cancer?

Cancer is not one disease, but a group of diseases. For example, lung cancer is a completely different disease than colorectal cancer. All cancers have one thing in common, they can grow and spread uncontrollably if not diagnosed at an early stage and properly treated.

Cancer is caused by many things, like smoking, poor diet, and/or family history. The greatest risk factor for any cancer is increasing age. The risk of getting cancer increases with age. The risk of developing cancer differs for men and women. In the United States, one out of two men and one out of three women will have cancer in his or her lifetime.

What Is Cancer Incidence?

Cancer *incidence* is a measure of how many *new* cancer cases occurred in a certain period of time. A cancer *incidence* rate tells how many cancers were diagnosed per 100,000 people in the population. (For example, a cancer incidence rate of 400 means that for every 100,000 people, 400 were diagnosed with cancer).

Incidence rates can be *age-adjusted*, meaning that the age structure of the population is taken into account when rates are calculated. Adjusting for age allows us to compare rates by removing differences in the age structure among different populations. Incidence rates shown below are age-adjusted to the 2000 US standard population.

What Is Cancer Mortality?

Cancer *mortality* is a measure of how many *cancer deaths* occurred in a certain period of time. A cancer *mortality rate* tells how many people died from cancer per 100,000 people in the population. (For example, a cancer mortality rate of 150 means that for every 100,000 people in the population, 150 died from cancer).

Cancer mortality rates can also be *age-adjusted*, taking into account the age structure of the population. Mortality rates shown below are age-adjusted to the 2000 US standard population.

Impact of Cancer: US, SC, and DHEC Region

The American Cancer Society (ACS) estimates that 1,762,450 new cases of cancer will be diagnosed in the United States in 2019. This translates to 4,829 new diagnoses each day. Furthermore, an estimated 606,880 people in the United States are expected to die from cancer in 2019.

In South Carolina, ACS estimates 29,830 new cases of cancer will be diagnosed in 2019 or over 81 new cancer cases diagnosed each day, while an estimated 10,720 South Carolinians will die from cancer in 2019. The four most common cancers in SC are cancers of the lung, breast (female), prostate, and colon/rectum. The four leading cancer causes of death in SC are lung, colon/rectum, breast (female), and pancreas.

Tables 1 through 4 below show the number of new cancer cases and deaths for Upstate Region, including age-adjusted rates for cancers in the region and for the state of SC. The last column in each table shows how the region ranks in comparison to the other 3 DHEC regions. A rank of 1 means that a region has the highest rate of any region, while a rank of 4 means that a region has the lowest rate of any region. At this time, the most recent cancer statistics for South Carolina and the United States are for new cases diagnosed in 2016. Deaths occurring in 2016 are also used.

Table 1 shows 5-year cancer incidence data for Upstate Region and SC for all cancers by sex and race, including Upstate Region's rank in SC compared to all other SC counties.

Table 1. Cancer Incidence by Sex and Race, 2012-2016, Upstate Region and South Carolina*

	SC	Upstate Region		
	5-year	5-year	new	SC
	rate	rate	cases*	rank
all	457	467	8038	1
male	515	527	4175	2
female	416	425	3863	1
white	459	470	6700	1
black	452	467	1253	1

^{*}Counts are annual averages based on 5 years of data. 5-year rates are per 100,000 age-adjusted to the 2000 US standard population. Statistics do not include *in situ* cancers, except for bladder. Source: SC Central Cancer Registry. ~ Statistic could not be calculated (small counts).

Table 2 shows 5-year cancer mortality data for Upstate Region and SC for all cancers by sex and race, including Upstate Region's rank in SC compared to all other SC counties.

Table 2. Cancer Mortality by Sex and Race, 2012-2016, Upstate Region and South Carolina*

	SC	Upstate Region		
	5-year rate	5-year rate	lives lost*	SC rank
all	171	170	2927	3
male	214	213	1602	3
female	141	139	1324	3
white	166	167	2420	3
black	193	194	487	2

^{*}Counts are annual averages based on 5 years of data. 5-year rates are per 100,000 age-adjusted to the 2000 US standard population. Sources: SC Central Cancer Registry and SC Vital Records. ~ Statistic could not be calculated (small counts).

Table 3 shows 5-year cancer incidence data for Upstate Region and SC for selected cancers, including Upstate Region's rank in SC compared to all other SC counties.

Table 3. Cancer Incidence for Selected Cancers, 2012-2016, Upstate Region and South Carolina*

	SC	Upstate Region		
concor	5-year	5-year	new	SC
cancer	rate	rate	cases*	rank
breast	120	120	1170	2
(female)	129	130	1179	2
prostate	115	107	011	4
(male)	115	107	911	4
lung/	65	<i>(</i> 7	1100	2
bronchus	65	67	1180	2
colon/	20	20	650	
rectum	39	39	659	2
pancreas	13	13	226	3

^{*}Counts are annual averages based on 5 years of data. 5-year rates are per 100,000 age-adjusted to the 2000 US standard population. Statistics do not include *in situ* cancers, except for bladder. Source: SC Central Cancer Registry. ~ Statistic could not be calculated (small counts).

Table 4 shows 5-year cancer mortality data for Upstate Region and SC for selected cancers, including Upstate Region's rank in SC compared to all other SC counties.

Table 4. Cancer Mortality for Selected Cancers, 2012-2016, Upstate Region and South Carolina*

	SC	Upstate Region		
20222	5-year	5-year	lives	SC
cancer	rate	rate	lost*	rank
breast	22	21	104	2
(female)	22	21	194	3
prostate	22	20	106	
(male)	22	20	136	4
lung/	45	40	020	•
bronchus	47	48	838	2
colon/				
rectum	15	15	253	2
pancreas	11	11	188	4

^{*}Counts are annual averages based on 5 years of data. 5-year rates are per 100,000 age-adjusted to the 2000 US standard population. Sources: SC Central Cancer Registry and SC Vital Records. ~ Statistic could not be calculated (small counts).

Table 5 shows the percentage of cancers diagnosed in early and late stages of disease in **Upstate Region** and SC. Cancers diagnosed in late stages lessen the potential for successful treatment and raise the risk of premature loss of life.

Table 5. All Cancers by Stage of Diagnosis, 2012-2016, Upstate Region and South Carolina*

	SC	Upstate	
		Region	
	Percent of all	Percent of all	
	cancers	cancers	
Early Stage	49.6	52.0	
Late Stage	41.3	41.8	
Unknown Stage	9.2	6.2	

*Percents (proportions) shown are (rounded) based on 5 years of data. Statistics include *in situ* cancers.

Source: SC Central Cancer Registry.

Breast Cancer in Upstate Region

Among women, breast cancer was the number 1 most commonly diagnosed cancer and the number 2 leading cause of cancer death from 2012-2016. For this 5-year period, there was an annual average of 1179 new female breast cancer cases diagnosed and 194 deaths from this disease.

Prostate Cancer in Upstate Region

Among men, prostate cancer was the number 1 most commonly diagnosed cancer and the number 2 leading cause of cancer death from 2012-2016. For this 5-year period, there was an annual average of 911 new prostate cancer cases diagnosed and 136 deaths from this disease.

Lung Cancer in Upstate Region

Lung Cancer was the number 1 most commonly diagnosed cancer and the number 1 leading cause of cancer death from 2012-2016. For this 5-year period, there was an annual average of 1180 new lung cancer cases diagnosed and 838 deaths from this disease.

Colorectal Cancer in Upstate Region

Colorectal cancer was the number 4 most commonly diagnosed cancer and the number 2 leading cause of cancer death from 2012-2016. For this 5-year period, there was an annual average of 659 new colorectal cancer cases diagnosed and 253 deaths from this disease.

Pancreatic Cancer in Upstate Region

Pancreatic cancer was the number 10 most commonly diagnosed cancer and the number 4 leading cause of cancer death from 2012-2016. For this 5-year period, there was an annual

average of 226 new pancreatic cancer cases diagnosed and 188 deaths from this disease.

Screening

Men and women should speak with their doctor about the pros and cons of screening and to determine their level of risk.

The SC Best Chance Network (BCN) is a federally funded program that provides breast and cervical cancer screening, follow-up and diagnosis for low-income, uninsured women age 30-64, screening thousands of women each year. For more information see:

http://www.scdhec.gov/Health/DiseasesandConditions/Cancer/FreeCancerScreenings/

Notes: Data are subject to change as data sets are updated. Rates are per 100,000 and age-adjusted to the 2000 U.S. standard population. Statistics do not include *in situ* cancers, except for bladder. The following suppression rules may have been applied to the data in the text and tables above: counts of 1-4 are recorded as less than 5; counts of 5-9 are rounded to 10. Rates based on counts fewer than 16 are suppressed (~).

Resources

SC Central Cancer Registry (DHEC)

http://www.scdhec.gov/Health/DiseasesandConditions/Cancer/CancerStatisticsReports/

American Cancer Society

http://www.cancer.org/research/cancerfactsstatistics/

CDC National Program of Cancer Registries United States Cancer Statistics

http://apps.nccd.cdc.gov/uscs/

Division of Cancer Prevention and Control (DHEC) http://www.scdhec.gov/Health/DiseasesandConditions/Cancer/

Division of Tobacco Prevention and Control (DHEC)

http://www.scdhec.gov/Health/TobaccoCessation/

SC Cancer Alliance

http://www.sccanceralliance.org/

